

Distribution of computer and information technology content
First Term of the year 2023 /2024





Distribution of computer and information technology content

For 1st.Prep 2023 / 2024

First Term

Week	Topic	Accompanying Activities
1	**Computer basics:** • Computer definition. • Computer stages. • components of a computer system. • Hardware (hardware components).	• Defines computer functions in different areas of life. • Defines the difference between the concepts of data and information. • List the components of a computer system. • Classifies the units of input, output and storage. • Differentiate between storage units.
2	**Computer System Basics Supplement:** • hardware supplement • software • The human element	• Describes the components of the processor. • Differentiate between types of memory. • Distinguish between different types of software. • Arranges storage units according to storage capacity. • Classifies the tasks of the human element.
3	operating system	• Explain the concept of an operating system. • Multiple functions of the operating system. • Classify operating systems (closed source -open source)
4	Operating system graphic interface.	• Work with different operating systems installed on the device. • Describes the basic elements of a graphical operating system interface. • Adjust operating system settings.
5	Dealing with files and folders.	• Explains the concept of files and their types. • Creates a file and saves it. • Differentiate between the command Save and Save As. • Recognizes multiple ways to search for files. • Differentiate between the concept of files and folders and create folders. • Uses the shortcut menu to create folders. • Performs operations (rename, delete, recycle) • applies copy and cut operations.
6	computer networks	• Explain the concept of a computer network. • Understand the importance of a computer network. • List the features of a computer network.

		• Recognize the types of networks. • Shares folders and files.
7	Image modifying program (lesson 1)	• Deals with one of the programs for creating and modifying images. • Use The assistant to familiarize himself with the interface components of an image creation and editing program. • Mastering the skill of selection.
8	Image modifying program (lesson 2)	• Creates a new image file • Creates simple graphics using selection tools.
9	Image modifying program (lesson 3)	• Draws various shapes using drawing tools. • Manipulate images using drawing tools.
10	Image modifying program (lesson 4)	• Changes the image format (transfer - scaling - reflection..)
11	Image modifying program (lesson 5)	• Using the concept of layers in designing an art board.
12	Image modifying program (lesson 6 - lesson 7)	• Adds improvements to the appearance of the image with filters • Distinguish between raster and vector images. • Differentiate between different image styles. • Add text to image layers. • Saves the image file with different extensions.
13	The project	• Designs a graphic board using the various concepts and skills of the program.
14	General Review	
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Teacher ....

Supervisor ....

School Principal ....



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For 2nd.Prep 2023 / 2024

First Term

Week	Topic	Accompanying Activities
1	• Web sites	• The concept recognizes (website – Home/web page) • conclude that Website consists of one or more pages • Conclude web pages components (text – image – Video – Hyperlink) • Recognize the concept of a static web page • Recognize the concept of Dynamic web page
2	• Stages of designing and creating website	• Differentiate between stages of designing and creating website • Paint a simple outline on paper includes web pages • Design sketches for Web pages, "My school site." • Look for the required texts for different web pages. • Capture images to school classes labs playgrounds • Save images as files within a storage units
3 4	• Creating and processing audio files	• Prepare and equip for audio file • Record voice comments using Audacity program in the creation and processing of sound • Modify the audio clip to add effect • Adjust the sound clips (cut-and-paste / delete) • Put effects on one sound clips • Sound comes to file with appropriate (MP3 – Wav)
5 6	• Creating and processing video files	• Import files (images / sound) using Open-shot program in editing and processing of video files • Create videos inside video processing program files • Adjust the video scenes • Save video project file • Add effects to scenes video • Add (transitions / text) to watch the video • To issue a video file with appropriate extinction.
7	• HTML coding languages • Key Concepts	• Definition of the language HTML • HTML commands • Rules basic Web site using HTML to create a page • About structure to create web page using HTML • Add title of web page about it <title> ....</title>

8	• Add the content to the web page • Formatting web page	• Add text to the web page • Change the direction of the web page using the property dir • The beginning of writing of a new line thing • Centering text about it <center> . </center>
9	• Cont. formatting web page • Formatting web page background	• Add a blank space between words matter & nbsp • Determine the background color of the web page characteristic bgcolor • Put a picture as the background of the web page characteristic background
10	• Formatting font in the web page	• Command .. to coordinate the Line • Commands <u> , <b> , <i>to change the font style
11	• Adding multimedia to web page	• insert image within a web page about it <img> • Control the dimensions of the image web page height property and property width • The alignment of the image within the page characteristic Align
12	• Cont. adding multimedia to web page.	• The inclusion of audio sounds as a backdrop blight thing <bgsound> • Video inclusion within the page about it <embed>
13	• Hyperlink	• Insert Hyperlink text of web page about <a> .. • A hyperlink to the image of the inclusion of the Web page about it <a> ..
14	• Creating the project "My school site"	• Create web page "Home" • Create web page "about the school." • Create web page "photo album" • Creating web "contact" page
15	General Review – practical tests	
16		

Teacher

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Supervisor

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School Principal

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Distribution of computer and information technology content

For 3rd.Prep 2023 / 2024

First Term

Week	Topic	Accompanying Activities
1	• Problem solving • Problem solving stages	• Arrange the problem solving stages • Develop problem solving stages to problems in real life
2	• Flow chart • Simple flow charts • Exercise (1-1) flow chart to adding two numbers • Exercise (1-2) solving the equation of the first degree 2+3x=Y	• Write the definition of flow charts • Mention the instruction to draw flow chart • Activity (1-1) draw a flow chart to calculate the perimeter and area of rectangle • Activity (1-2) draw a flow chart to calculate an area of a circle • Activity (1-3) draw a flow chart to calculate the years number with the knowledge of months number
3	• Using (decision) on the flow chart. • Exercise (1-3) drawing a flow chart to print "succeed" if the degree of more than or equal 50 • Exercise (1-4) drawing a flow chart to print the result of divided two numbers if the divisor equal 0 and print "not defined"	• Activity (!-4) draw a flow chart to input two numbers then print "the greater number is " and "the little number is"
4	• Exercise (1-5) draw a flow chart to input number then print the type of number{even or odd) • Exercise (1-6) draw a flow chart to get the temperature and print greater than zero or less than zero or equal zero	• Activity (1-5) draw a flow chart to calculate circle area which has radius R
5	• Using loops in flow chart • Exercise (1-7) print numbers from 1 to 3 • Exercise (1-8) modify flow chart using the last exercise to print multiplication table of 3	• Activity (1-6) following the value of the variable j and print the value in every stage • Activity (1-7) draw a flow chart to print even numbers from 1 to 10
6	Exercise (1-9) print the integer number from 1	• Activity (1-8) sum of odd numbers from 1 to 10

	to 3 • Solve the exercise of chapter 1	• Activity (1-9) sum of even numbers from 1 to 10
7	• Chapter 2 • VB.net • Programming and computer memory • VB.net and Framework.NET • VB.net and IDE	• Drawing sketch to GUI of IDE
8	• Solve the exercise of chapter 2	• Activity (2-1)
9	• Chapter 3(controls properties) • Form • Set properties (Text) and (Name)	• Set properties of the form
10	Button • Set properties (size-location) • Set properties (font-back color-forecolor) Label • Set properties (border style -Auto Size) Text box • Set properties (max length –multiline password Char)	• Draw (button) on the form. • Change the button place on the form. • Set properties front and back color for the button. • Control on the label size. • Control on the outline of the label.
11	List box	• Set properties (list box-combo box) • Set properties (Items) - (Selection Mode)- (Sorted)Combo box • Set properties ete Mode • (Auto Complete Source
12	• Group box • Radio button • Check box • Solve the exercise of chapter 3	• Put group box twice then draw radio button in each group to know if the user male or female • Draw many check box to know which language the student know.
13	Chapter4 (code window) • Code window • Event handler	• Open the form of code window • Create a processor then press on the button on the code window form.
14	• Set the software properties • Solve the exercise of chapter 4	Set the software properties to the text.
15 16	General review	Create a project using the tools we learned.

Teacher .... **Supervisor** .... **School Principal** ....